CANADIAN HIGH ARCTIC RESEARCH STATION

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ATLANTIC ARCTIC TRANSBOUNDARY ISSUES
Arctic Science and Technology in the Canadian Arctic

The Atlantic: A Shared Resource

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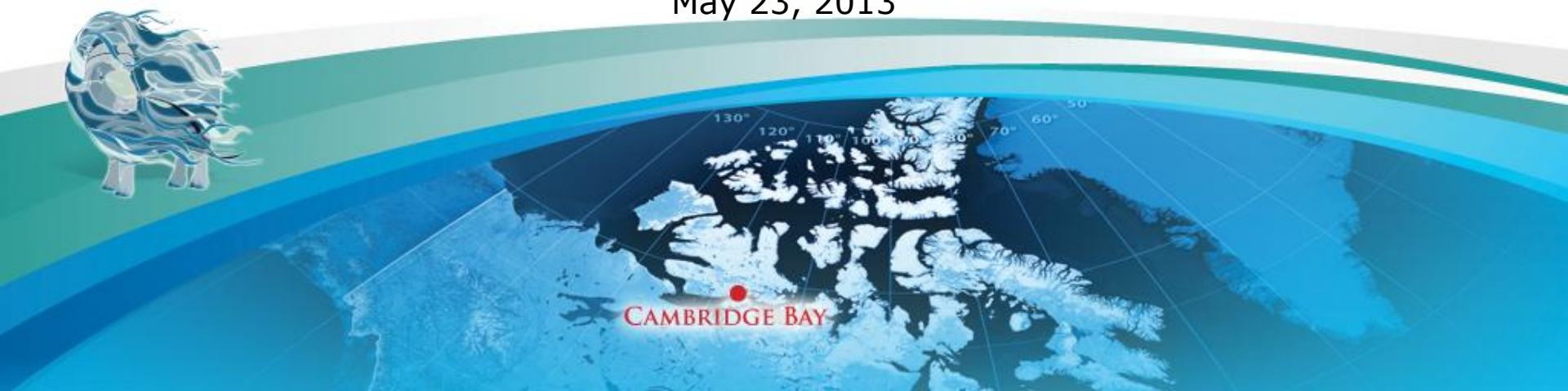
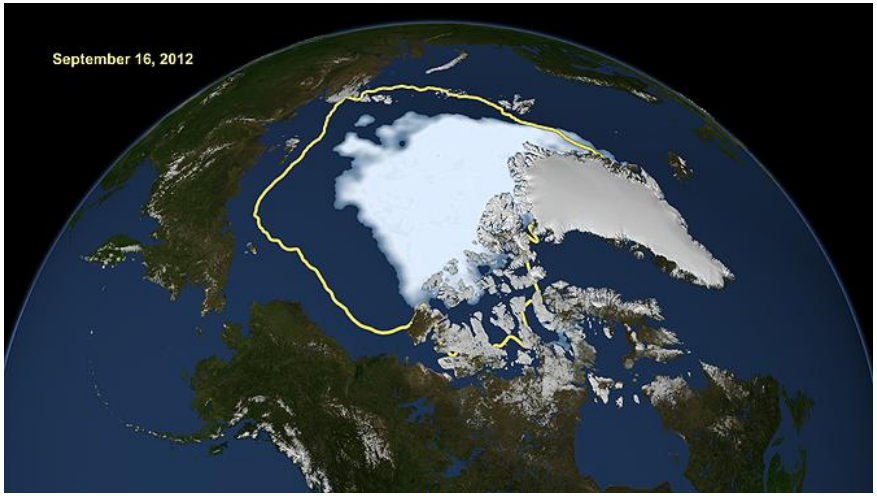
May 23, 2013



The Arctic-Atlantic connection and Canada's Northern Strategy

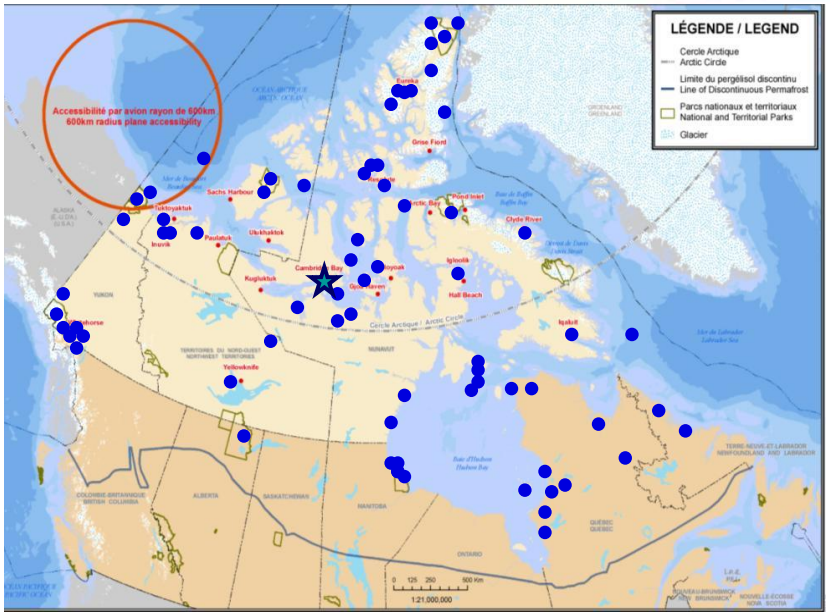
- Canada's Arctic represents:
  - 25% of global Arctic
  - 40% of Canada's territory
  - Largest archipelago in world

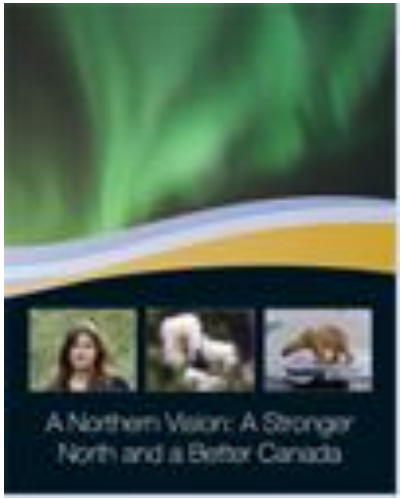
- Wide range of Arctic ecosystems due to huge north-south gradient



Sovereignty	Social and Economic Development	Environmental Protection	Governance
DOMESTIC AND INTERNATIONAL DIMENSION			
Exercising our Arctic sovereignty as international interest in the region increases.	Encouraging social and economic development and regulatory improvements that benefit Northerners.	Adapting to climate change challenges and ensuring sensitive Arctic ecosystems are protected for future generations.	Providing Northerners with more control over their economic and political destiny.
SCIENCE AND TECHNOLOGY UNDERPIN ALL FOUR PILLARS			

Engagement in Canadian Arctic Science activities





Science-based departments and others have broad mandates for managing resources, environmental protection, fostering knowledge

Academic

- Network of Centres of Excellence of Canada: ArcticNet
- Canada Excellence Research Chairs (Arctic geomicrobiology, Remote sensing)
- NSERC Discovery Frontiers ADAPT and CCAR

Northerners

- Research Institutes in each territory
- Land claim organizations

Industry and other

- Oil and gas
- Mining

Canada

The Government of Canada's Commitment to CHARS

Our government will build a world-class arctic research station that will be on the cutting edge of arctic issues, including environmental science and resource development.

This station will be built by Canadians, in Canada's Arctic, and it will be there to serve the world.

Cambridge Bay, Nunavut
Population : 1477 (80% Inuit)

Status

Definition | Feasibility | Design | Build | Operate

2013

Canada

Mandated Priorities for the Canadian High Arctic Research Station

Mandated themes	Long–term outcomes
Resource Development	▪ Resource development that is economically and environmentally sound and promotes social development ▪ Renewable resources and unconventional energy sources that contribute to greater energy security and sustainability
Exercising Sovereignty	▪ Efficient and effective monitoring and surveillance of Canada's vast Arctic ▪ Effective management of Canada's Arctic waters under changing conditions ▪ Improved response to, and mitigation of, environmental and other disasters.
Strong and Healthy Communities	▪ Improved infrastructure and diversified economic opportunities ▪ Improved health outcomes and community wellness and resiliency
Environmental Stewardship and Climate Change	▪ Effective environmental stewardship through greater knowledge of natural and human systems and their interconnections ▪ Strengthened mitigation efforts through greater understanding of changes in the Arctic climate and the links to global systems, and increased capacity to adapt.

Recommendations

Establish collaborations that are built on new opportunities, existing capacities and fundamental to delivering on common and cross-cutting objectives

e.g

- Established Canada-EU-US working group
- Monitoring coordination (SAON)
- Sharing infrastructure resources (INTERACT)
- Data sharing, standards, protocols

Contact Us

If you have comments or feedback on CHARS, please contact
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For more information about CHARS, please go to **www.science.gc.ca/CHARS**

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